

Fig. 1**SEQ ID NO: 1**

AGGAAGCCTCAAGACGCGGAGCAGCGGCAGGAAGGAGCCCCCGGCAGC
CCGGAGGAGCATGGGCACCTTGCGGGATTTACAGTACGCGCTCCAGGA
GAAGATCGAGGAGCTGAGGCAGCGGGATGCTCTCATCGACGAGCTGGA
GCTGGAGTTGGATCAGAAGGACGAACTGATCCAGAAGCTGCAGAACGA
GCTGGACAAGTACCGCTCGGTGATCCGACCAGCCACCCAGCAGGCGCA
GAAGCAGAGCGCGAGCACCTTGCAAGGGCGAGCCGCGCACCAAGCGGCA
GGCGATCTCCGCCGAGCCCACCGCCTTCGACATCCAGGATCTCAGCCA
TGTGACCCTGCCCTTCTACCCCAAGAGCCCACAGTCCAAGGATCTTAT
AAAGGAAGCTATCCTTGACAATGACTTTATGAAGAACTTGGAGCTGTC
GCAGATCCAGGAGATTGTGGATTGTATGTACCCGGTGGAGTATGGCAA
GGACAGTTGCATCATCAAAGAAGGAGACGTGGGGTCACTGGTGTATGT
CATGGAAGATGGTAAGGTTGAAGTTACAAAAGAAGGTGTGAAGTTGTG
TACCATGGGTCCAGGAAAAGTGTTTGGGGAATTGGCTATTCTTTACAA
CTGTACCCGGACAGCGACCGTCAAGACTCTTGTAATGTAAACTCTG
GGCCATTGATCGACAATGTTTTCAAACAATAATGATGAGGACAGGACT
CATCAAGCATAACCGAGTATATGGAATTTTTTAAAAGCGTTCCAACATT
CCAGAGCCTTCCTGAAGAGATCCTCAGCAAGCTTGCTGATGTCCTTGA
AGAGACCCACTATGAAAATGGAGAATATATTATCAGGCAAGGTGCAAG
AGGGGACACCTTCTTTATCATCAGCAAAGGAACGGTAAATGTCACTCG
TGAAGACTCACCGAGTGAAGACCCAGTCTTTCTTAGAACTTTAGGAAA
AGGAGACTGGTTTGGAGAGAAAGCCTTGCAGGGGGAAGATGTGAGAAC
AGCAAACGTAATTGCTGCAGAAGCTGTAACCTGCCTTGTGATTGACAG
AGACTCTTTTAAACATTTGATTGGAGGGCTGGATGATGTTTCTAATAA
AGCATATGAAGATGCAGAAGCTAAAGCAAAATATGAAGCTGAAGCGGC
TTTCTTCGCCAACCTGAAGCTGTCTGATTTCAACATCATTGATACCCT
TGGAGTTGGAGGTTTCGGACGAGTAGAACTGGTCCAGTTGAAAAGTGA
AGAATCCAAAACGTTTGCAATGAAGATTCTCAAGAAACGTCACATTGT
GGACACAAGACAGCAGGAGCACATCCGCTCAGAGAAGCAGATCATGCA

Fig. 1 (continued)

GGGGGCTCATTCCGATTTTCATAGTGAGACTGTACAGAACATTTAAGGA
CAGCAAATATTTGTATATGTTGATGGAAGCTTGTCTAGGTGGAGAGCT
CTGGACCATTCTCAGGGATAGAGGTTTCGTTTGAAGATTCTACAACCAG
ATTTTACACAGCATGTGTGGTAGAAGCTTTTGCCTATCTGCATTCCAA
AGGAATCATTTACAGGGACCTCAAGCCAGAAAATCTCATCCTAGATCA
CCGAGGTTATGCCAAACTGGTTGATTTTGGCTTTGCAAAGAAAATAGG
ATTTGGAAAGAAAACATGGACTTTTTGTGGGACTCCAGAGTATGTAGC
CCCAGAGATCATCCTGAACAAAGGCCATGACATTTAGCCGACTACTG
GTCACTGGGAATCCTAATGTATGAACTCCTGACTGGCAGCCCACCTTT
CTCAGGCCCAGATCCTATGAAAACCTATAACATCATATTGAGGGGGAT
TGACATGATAGAATTTCCAAAGAAGATTGCCAAAATGCTGCTAATTT
AATTAAAAAACTATGCAGGGACAATCCATCAGAAAGATTAGGGAATTT
GAAAAATGGAGTAAAAGACATTCAAAGCACAAATGGTTTGAGGGCTT
TAACTGGGAAGGCTTAAGAAAAGGTACCTTGACACCTCCTATAATACC
AAGTGTTGCATCACCCACAGACACAAGTAATTTTGACAGTTTCCCTGA
GGACAACGATGAACCACCACCTGATGACAACCTCAGGATGGGATATAGA
CTTCTAATGTATTTCTCTTACCTGCTTCTGCCTTGCTGAAGACAGCTT
TTTCTGAGACACAGCTGCCAGCAAACCTGAGGGAAAGAGAGAAGATTA
GTGCTCGGGGTCACCATGATGCCTTTGATCGATGCTGCTCCAGTAACT
ACAGTGGCATTAGGACTTATCGCTTAGATGACAATAGTGCTCTTTACA
TGTTTTCTGTTTGAACCTAAAATAGCAGTTGACATGGTGGTCCTGAAG
CAAAGCCTTTCACCAGTAAAGAGATGTTTTCTATTGTTGCAATGACCT
TGCTTTGCTCTGATTATAATTTGAAAGACTGTAGGAAACACTTCAATG
TAGTATAAGAGTCTGTACCTTGCTGGAATATTCAAGAAGATGAAAGAA
TAATATATTGGGTACAATAGATTACTATGGTACAGAACTGGGCTATT
CCCTTTCTTCAAGTGAAGGCTGTGGGATCTATTACAGCTGCAGGCCGG
TGTATATACCATACAAAAGAGGACCACACATCTGTTGGTCACAGAGTT
CATGTCACACCAGTGCTAGAAGTTTCATGATTTTATTTCCCAGCAGTG
CTGATGACAAGACTGAATGTTACCTTTTCTTTCTGACAGATTTTAAAA

Fig. 1 (continued)

ATTGATATGATAAAAGCACAACCTGCTATAGATTCTGCTGAGACCTCTC
ATAGTAGGTATATATGAGTTTTTCACAGAAGACTGAAAAATAATGCATG
ATATTTGTTTGTTTTTTTTTGATAAATTGGCATGACAGAGTGGGGAAAA
AAAGCAATTCACAAAACCATTTTCATATTTTTTTAAAATATTGTGCTTAA
AGATGGTCCTGGAAGTAAATGACTAGCAGCCAATTGGTTTTACTTAAC
ATACCCTCAAACCTGAGGCTTAAAGTATTCCTTTTTATAAAAATAAATG
CTTGGGGTAGGGTGGAGTGGGGAGGGATTAAAACCCATCCAAAAAATA
AATAAAAACCTATATAGGTGCTATGTATATCTTTCATCTGTAAATGTCA
GTGTCTGAACAGCAACACAAATTCAAATCATTATACGTGTAGCCAGAA
ACTCAAGCATTTTCACTAAAGTTATTAAACCAAACCTCCTGTCCAATTT
GACTTATACAACATAGTCAGTCTAGAGTTGAGAGACAAAGGTAATTAT
AAACCTATTTGAACTAGCTTCTTGTCTTAGGCCTGAACCAAAAAACAA
CAAACAAACAAAAACAAGAATGAAAAACAGAAATAAAAGAAGTAGAA
AAGACAAAGAAAGAAAGCCCAAAGTCAAAGTTGTTAATATTTACAGGT
TTACCAGATCTGGAACATTACTTATTTGAGGTCAGAGAACAAAACAAG
AACCTGGCCAGGTGTTGATTACCTTTTAGTGAATAAGCTGAGTCCATA
TACTTGTCTAACTAAGAAAGCAGTACAGAGGAAAACAGGAACCTGATT
TTTTTAAAATAAATTTTAAATAAAATAGAATTACTACAATTCTGCAAT
TTCATACTACCTAAAAAAGACTAGATTTGAAAATGTCAAGCTGATTTA
CTTTATTACATGGAGAAAAGAATCCACAAATTAACTGAGTCCTTCA
CTGGCATGCCAGTTGACTATTATTAGCTGTCATAAGTAACCCCG

Fig. 2**SEQ ID NO: 2**

MGTLRDLQYALQEKIEELRQRDALIDELELELDQKDELIQKLQNELDK
YRSVIRPATQQAQKQSASTLQGEPRTKRQAISAEPTAFDIQDLSHVTL
PFYPKSPQSKDLIKEAILDNDFMKNLELSQIQEIVDCMYPVEYGKDSC
IIKEGDVGSLVYVMEDGKVEVTKEGVKLCTMGPGKVFGELAILYNCTR
TATVKTLVNVKLWAIDRQCFQTIMMRTGLIKHTEYMEFLKSVPTFQSL
PEEILSKLADVLEETHYENGEYIIRQGARGDTFFIISKGTVNVTTREDS
PSEDPVFLRTLKGKGDWFGEKALQGEDVRTANVIAAEAVTCLVIDRDSF
KHLIGGLDDVSNKAYEDAEAKAKYEAEAAFFANLKLSDFNIIIDTLGVG
GFGRELVLQKSEESKTFAMKILKKRHIVDTRQQEHIRSEKQIMQGAH
SDFIVRLYRTFKDSKYLYMLMEACLGGELWTILRDRGSFEDSTTRFYT
ACVVEAFAYLHSGGIIYRDLKPENLILDHRGYAKLVDFGFAKKIGFGK
KTWTFCGTPEYVAPEIILNKGHDISADYWSLGILMYELLTGSPPFSGP
DPMKTYNIIILRGIDMIEFPKKIAKNAANLIKKLCRDNPSERLGNLKN
VKDIQKHKWFEGFNWEGLRKGTLPPIIPSVASPTDTSNFDSPEDND
EPPPDNSGWDIDF

Fig. 3**SEQ ID NO: 3**

5'- agccgactactggtcactgg -3'

Fig. 4**SEQ ID NO: 4**

5'- gatctgggcctgagaaaggt -3'

Fig. 5**SEQ ID NO: 5**

5'- tgtatgaactcctgactggcagccc -3'